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NOTES AND NEWS.

THE HELMHOLTZ MEMORIAL.

THE following subscriptions have been paid to Prof. Hugo Münsterberg, Secretary and Treasurer of the American Committee, Cambridge, Mass. Further subscriptions should be sent to him at an early date :

A. Agassiz, Cambridge,.....	\$ 25
S. P. Avery, New York,	10
Clarence J. Blake, Boston,.....	20
Francis Blake, Boston,.....	50
H. P. Bowditch, Boston,.....	20
W. N. Bullard, Boston,.....	10
J. McK. Cattell, New York,.....	5
F. A. Christie, Meadville, Pa.,.....	2
Clarence N. Clark, Philadelphia,.....	25
A. Donner, Boston,.....	25
Mrs. M. A. P. Draper, New York,.....	50
W. G. Farlow, Cambridge,.....	5
H. N. Gardiner, Northampton,.....	3
E. Gruning, New York,.....	15
C. C. Harrison, Philadelphia,.....	100
A. Jacobi, New York,.....	10
W. James, Cambridge,.....	5
J. Jeffries, Boston,.....	5
H. Knapp, New York,.....	100
Seth Low, New York,.....	100
Oswald Ottendorfer, New York,.....	200
E. C. Pickering, Cambridge,.....	20
J. J. Putnam, Boston,.....	5
W. A. S., New York,.....	10
G. de Schweinitz, Philadelphia,.....	25
N. S. Shaler, Cambridge,.....	5
Society of Eye Surgeons, San Francisco,	25
D. P. Todd, Amherst, Mass.,.....	10
O. F. Wadsworth, Boston,.....	20
H. C. Warren, Cambridge,.....	25
D. Webster, New York,.....	5
Henry W. Williams, Boston,.....	25
N. Wilmer, Washington,.....	10
Total,.....	\$970

THE GEOLOGICAL SOCIETY OF AMERICA.

THE Geological Society of America will hold its seventh Summer Meeting at Spring-

field, Mass., Tuesday and Wednesday, August 27 and 28. The Council will meet Monday evening and the Society will convene Tuesday morning at 10 o'clock.

The Fellowship of this Society includes nearly all the working geologists upon the continent. The roll now contains 223 names of Fellows.

The former Presidents of the Society have been James Hall, James D. Dana, Alexander Winchell, G. K. Gilbert, J. William Dawson and T. C. Chamberlin.

The officers for 1895 are as follows :

President, N. S. Shaler, Harvard University.

Vice-Presidents, Joseph Le Conte, University of California; Charles H. Hitchcock, Dartmouth College.

Secretary, H. L. Fairchild, University of Rochester.

Treasurer, I. C. White, Morgantown, W. Va.

Editor, J. Stanley-Brown, Washington, D. C.

Councillors :

F. D. Adams, McGill College, Montreal.

R. W. Ells, Geological Survey of Canada.

I. C. Russell, University of Michigan.

E. A. Smith, University of Alabama.

C. R. Van Hise, University of Wisconsin.

C. D. Walcott, U. S. Geological Survey.

The Society has just completed the sixth volume of its Bulletin, which is a handsome octavo, with 528 pages and 27 plates. This volume includes twenty-one brochures.

Information concerning the Society and its publications can be obtained by addressing the Secretary, H. L. Fairchild, Rochester, N. Y.

NOMINATIONS BEFORE THE ROYAL SOCIETY.

THE following fifteen candidates were selected by the Council of the Royal Society to be recommended for election into the Society: J. Wolfe Barry, civil engineer, Vice-President of the Institution of Civil

Engineers ; Alfred Gibbs Bourne, Professor of Biology in the Presidency College, Madras ; George Hartley Bryan, Fellow of Peterhouse, Cambridge, and Lecturer on Thermodynamics on the University list ; John Eliot, Meteorological Reporter to the Government of India ; Joseph Reynolds Green, Professor of Botany in the Pharmaceutical Society of Great Britain ; Ernest Howard Griffiths, physicist Private Tutor ; Charles Thomas Heycock, Lecturer on Natural Science, King's College, Cambridge ; Sydney John Hickson, biologist, Fellow of Downing College, Cambridge ; Henry Capel Lofft Holden, Major Royal Artillery, electrician ; Frank McClean, astronomer ; William Mac Ewan, Professor of Surgery, University of Glasgow ; Sidney Martin, Assistant Physician, University College Hospital and Hospital for Consumption, Brompton ; George M. Minchin, Professor of Mathematics in the Royal Engineering College, Cooper's Hill ; William Henry Power, Assistant Medical Officer, H. M. Local Government Board ; Thomas Purdie, Professor of Chemistry in the University of St. Andrews.

JOHN A. RYDER.

A JOINT meeting of members of the University of Pennsylvania, the American Philosophical Society and the Academy of Natural Sciences was held in the hall of the Academy of Natural Sciences on the evening of Wednesday, April 10, in memory of the late Professor John A. Ryder. General Isaac J. Wistar presided and Philip P. Calvert acted as secretary. Addresses were made by Dr. Harrison Allen on 'Dr. Ryder's Relation to the Academy of Natural Sciences;' Dr. Bashford Dean, of Columbia College, on 'Dr. Ryder's Work in the U. S. Fish Commission'; Dr. Horace Jayne, on 'Dr. Ryder and the School of Biology'; Prof. E. D. Cope, on 'The Evolutionary Doctrine of Dr. Ryder'; Dr. H. F. Moore, on 'Dr. Ryder as a Teacher,' and Dr. W.

P. Wilson, on 'Dr. Ryder as a Collegian.' The speakers all bore testimony to Professor Ryder's merits as an investigator and as a teacher and to his amiability and honesty as a man.—*American Naturalist*.

GENERAL.

THE *Gesellschaft für Erdkunde* at Berlin has just issued the first volume of a bibliography of geographical science entitled *Biblioteca Geographica*, edited by Otto Baschin with the assistance of Dr. Ernst Wagner. The volume covers 1891 and 1892 and the society proposes to continue the publication annually. The scope of the work is in full accord with the widest understanding of the word geography. The editor, Otto Baschin, Berlin, W. Schinkenplatz 6, requests that authors send titles and works relating to geography to him.

THE *Imprimerie Polytechnique* at Brussels announces an important Egyptological work by G. Hagemans, which will include a history of Egyptian civilization, a summary of Egyptian literature and a discussion of the Egyptian writing, including a comparison between its hieroglyphs and those of Yucatan; this is to be followed by a Copto-Egyptian grammar, an Egyptian-French and a French-Egyptian dictionary. The entire work will appear in sixty parts at 25 cents per part.

WE learn from *La Nature* that at the annual meeting of 'Le Congrès des Sociétés Savantes' at the Sorbonne, Paris, on April 20th, under the presidency of M. Poincaré, M. Moissan called attention to the rapid progress and brilliant discoveries of modern chemistry, and their practical outcome in stimulating national industries. He passed under review the processes of manufacturing iron, steel, aluminium, etc., the artificial production of the diamond, the crystallization of metallic oxides, and the use of electricity in the decomposition of those oxides hitherto regarded as irreducible. At the

close of the meeting M. Poincaré was elected president for a second term. The Legion of Honor was conferred on MM. le comte d'Avenal, O'Ehlert and Herluison.

THE honorary degree of D. Sc. has been conferred on Mr. Francis Galton by the University of Cambridge.

THE statute establishing degrees for research at Oxford has now been finally approved by Congregation, with the adoption of several amendments, principally of a technical nature.

THE University of Aberdeen is about to confer the degree LL. D. on Miss J. E. Harrison in recognition of her researches in Greek archæology. Miss Harrison will be the first woman to receive this degree from a British university.

DR. RICHARD HANITSCH, demonstrator of zoölogy at University College, Liverpool, has been appointed to the curatorship of the Raffles Museum, at Singapore.

THE *Evening Post* states that the Herbarium of Rousseau, composed of fifteen quarto volumes in cardboard and containing about 1,500 plants, is about to be sold at Orleans.

AT a recent sale in London, Gilbert White's Natural History of Selborne, the author's original manuscript, in the form of letters to Thomas Pennant and Daines Barrington, first printed in 1789, was sold for £294. The manuscript contains many passages not printed in the several editions, and has never before been out of the possession of the lineal descendants of the author.

A CATALOGUE of the Philosophical Transactions of the Royal Society from 1824 to 1893 has been issued by Dulau & Co., London. A large number of separate articles are included. Especially worthy of note is a paper on 'Observations on the Parallel Roads of Glen Roy * * * with an attempt to prove that they are of Marine Origin' (1839), by Darwin, as also articles by Sir

Humphrey Davy, William and Sir F. Herschell, Sir E. Sabine, Sir David Brewster, Faraday, Sir Richard Owen and Cayley.

MR. ARTHUR M. WELLINGTON, the well known engineer, died in New York at the age of forty-eight.

PROF. E. RAY LANKESTER is giving a course of four lectures at the Royal Institution on 'Thirty Years' Progress in Biological Science.'

MRS. ROBERT E. PEARY delivered an illustrated lecture based on her experiences in the North on May 23. This lecture was given under the auspices of the National Geographic Society, which aided Lieut. Peary in his first enterprise. The proceeds of the lecture will be devoted to a fund which is being raised to defray the expenses of an expedition that will enable Lieut. Peary to return to America. It is not believed, however, that he is in any immediate danger. The expedition (which will cost from \$9,000 to \$12,000, of which about \$7,000 has already been raised) will probably start about July 5th, so as to reach Lieut. Peary's headquarters before September 1st.

At the meeting of the Boston Scientific Society, was held on May 28th, an address on 'Some Problems in the Use of Water Power as Applied to the Electrical Transmission of Power' was delivered by Allan V. Garratt.

PROFESSOR DYCHE, of Kansas University, is starting for Greenland in search of specimens of mammals and birds to add to his collection.

CHANCELLOR JAMES HULME CANFIELD has accepted a call to the presidency of the Ohio State University, Columbus.

AN infirmary in connection with Harvard University, which is proposed as a memorial to Dr. Peabody, is projected, costing not less than \$12,000. President Eliot, in the name of the overseers of Harvard University, has offered a site for the infirmary,

providing the money to build it can be raised.

DR. JAMES E. RUSSELL has been made professor of pedagogy in the University of Colorado.

THE American Institute of Archæology, which had already given a fellowship of \$600 to the American school at Athens, voted a second fellowship of \$600-\$800 at the semi-annual meeting of the committee held at Middletown, Conn., on May 17th. These scholarships will probably be awarded to students and graduates of the coöperating colleges on competitive examination. The first examination will probably be held at the end of a year.

PROF. E. S. HOLDEN has been made a commander of the Order of the Ernestine House of Saxony in recognition of his services to science.

DR. P. DANGEARD has been appointed professor of botany to the Faculty of Sciences at Poitiers.—*Nature*.

WE learn from the *Naturwissenschaftliche Rundschau* that Prof. Overbeck of Greifswald has been appointed professor of physics in the University of Tübingen as successor to Professor Braun. Dr. Hermann Struve, astronomer in the Observatory of Pulkowa, has been made professor of astronomy in the University of Königsberg; Prof. Koken of Königsberg, professor of geology and mineralogy in Tübingen; Prof. Hauser of Erlangen, Director of the Erlangen Anatomical Institution; Prof. Brauns of Karlsruhe, professor of geology and mineralogy in Giessen, and Dr. Schutt of Kiel, professor of botany in the University of Greifswald.

PROFESSOR V. KNORRE has been called to the new chair of electro-chemistry in the technical High School at Berlin-Charlottenburg.

THE death is announced on May 4th of Surgeon-Major Carter, F. R. S., also of Prof. Manuel Pinheiro Chagas, General

Secretary of the Royal Academy of Sciences at Lisbon, at the age of fifty-three.

It is announced that Dr. J. P. D. John, who resigned the presidency of De Pauw University a few days ago, will be asked by the trustees to reconsider his resignation.—*Evening Post*.

THEOBALD SMITH, M. D., has been elected professor of applied zoölogy, and Henry Lloyd Smythe assistant professor of mining, in Harvard University.

AT the semi-annual meeting of the trustees of the American University it was announced that \$127,300 had been subscribed towards the erection of the first building (the Hall of History), but that \$150,000 were required. Those present at the meeting subscribed and assumed the entire deficiency.

DR. ROB. SACHSSE, assistant professor of agricultural chemistry in Leipzig University, died on April 26.

SCIENTIFIC JOURNALS.

THE ASTROPHYSICAL JOURNAL, MAY.

The Modern Spectroscope, XII: WILLIAM HUGGINS.

Dr. Huggins here describes the Tulse Hill ultra-violet spectroscope. An earlier arrangement of telescope and spectroscope had consisted in exchanging the small mirror of an eighteen-inch Cassegrain telescope for a spectroscope with its slit in the principal focus of the large mirror. Difficulties of adjustment and the sacrifice of either light or purity due to the restricted size of the spectroscope led to the abandonment of this form. The small speculum was replaced and the collimator was then inserted in the hole through the large mirror. The long equivalent focal length of the Cassegrain form is of advantage where it is desirable to have images of considerable dimensions upon the slit, while the instrument itself and the building may remain of moderate size.